

## Storz Aida Manual

PNL is the gold standard for the management of large and/or otherwise complex renal stones. Since its introduction in the seventies PNL has undergone considerable evolution, mainly driven by the improvement in access techniques, endoscopic instrument technology, lithotripsy devices and drainage management. The conventional prone position for PNL has been challenged in the last two decades by a variety of modifications, including the supine and Galdakao-modified supine Valdivia positions, which make simultaneous retrograde working access to the collecting system possible and have proven anesthesiological advantages. The Galdakao-modified supine Valdivia position allowed the development of ECIRS (Endoscopic Combined IntraRenal Surgery), a technique exploiting a combined antegrade and retrograde approach to the upper urinary tract, using both rigid and flexible endoscopes with the related accessories. The synergistic teamwork of ECIRS provides a safe and efficient, minimally-invasive procedure for the treatment of all kinds of urolithiasis. The aim of this book is to share with the urologic community worldwide our experience, our standardization of all the steps, and tips and tricks for the procedure. This book summarizes the key adaptations enabling extremophile fishes to

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survive under harsh environmental conditions. It reviews the most recent research on acidic, Antarctic, cave, desert, hypersaline, hypoxic, temporary, and fast-flowing habitats, as well as naturally and anthropogenically toxic waters, while pointing out generalities that are evident across different study systems. Knowledge of the different adaptations that allow fish to cope with stressful environmental conditions furthers our understanding of basic physiological, ecological, and evolutionary principles. In several cases, evidence is provided for how the adaptation to extreme environments promotes the emergence of new species. Furthermore, a link is made to conservation biology, and how human activities have exacerbated existing extreme environments and created new ones. The book concludes with a discussion of major open questions in our understanding of the ecology and evolution of life in extreme environments.

written by a world authority on animal behaviour a highly original contribution to the subject covers behaviour and domestication of farm, zoo and companion animals This book synthesizes existing knowledge of the process of domestication and how it has affected the behaviour of captive wild and domesticated animals. Three broad themes are addressed: Genetic contributions to the process of domestication Experimental contributions to the process of domestication The process of feralization (i.e. the adaptation of domesticated

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animals when returned to their natural habitat)

The international conference on Advances in Computing and Information technology (ACITY 2012) provides an excellent international forum for both academics and professionals for sharing knowledge and results in theory, methodology and applications of Computer Science and Information Technology. The Second International Conference on Advances in Computing and Information technology (ACITY 2012), held in Chennai, India, during July 13-15, 2012, covered a number of topics in all major fields of Computer Science and Information Technology including: networking and communications, network security and applications, web and internet computing, ubiquitous computing, algorithms, bioinformatics, digital image processing and pattern recognition, artificial intelligence, soft computing and applications. Upon a strength review process, a number of high-quality, presenting not only innovative ideas but also a founded evaluation and a strong argumentation of the same, were selected and collected in the present proceedings, that is composed of three different volumes. The Australian Council for International Development is the peak body of Australian international development NGOs. This book explores ACFID's history since its founding in 1965, drawing on current and contemporary literature as well as extensive archival material. The trends and challenges in international

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development are seen through the lens of an NGO peak body: from the heady optimism of the first Development Decade of the 1960s, through the growth in government support of NGOs in the 1980s, to the challenges of the 2010s. The major themes of ACFID are presented: human rights; gender justice; humanitarianism; NGO codes of conduct; and influencing government policy both broadly and as it relates to NGOs. Each of these themes is placed in a global context and in relation to what other NGO networks are doing internationally. This book details the current status of cervical MISS for expert surgeons, young surgeons or clinicians, and residents and fellows with little or no experience on this field of surgery. Because of the involvement of different and highly trained specialists from all over the world, the aim of this book is to satisfy the requirements for knowing the most advanced surgical techniques and their application. Also included are the indications and surgical techniques involving an open standard approach, giving a most exhaustive knowledge of the cervical spine surgery. Due to the difficulty of finding books with both minimal invasive cervical spine surgery and more conventional standard “open” surgery, the benefit of this book is to permit the surgeons and residents and medical doctors, to have a more complete and immediate knowledge of the topics. Due to the scientific multidisciplinary nature of the MISS, several professionals such as

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orthopedic surgeons, neurosurgeons, radiologists, anesthesiologists and pain management specialists, have been involved in order to create a book in which all the aspects of MISS have been treated.

### Product 80-1535TR

The enteric nervous system (ENS) is a complex neural network embedded in the gut wall that orchestrates the reflex behaviors of the intestine. The ENS is often referred to as the “little brain” in the gut because the ENS is more similar in size, complexity and autonomy to the central nervous system (CNS) than other components of the autonomic nervous system. Like the brain, the ENS is composed of neurons that are surrounded by glial cells. Enteric glia are a unique type of peripheral glia that are similar to astrocytes of the CNS. Yet enteric glial cells also differ from astrocytes in many important ways. The roles of enteric glial cell populations in the gut are beginning to come to light and recent evidence implicates enteric glia in almost every aspect of gastrointestinal physiology and pathophysiology. However, elucidating the exact mechanisms by which enteric glia influence gastrointestinal physiology and identifying how those roles are altered during gastrointestinal pathophysiology remain areas of intense research. The purpose of this e-book is to provide an introduction to enteric glial cells and to act as a resource for ongoing studies on this fascinating population of glia. Table of Contents: Introduction / A Historical Perspective on Enteric Glia / Enteric Glia: The Astroglia of the Gut / Molecular Composition of Enteric Glia / Development of

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Enteric Glia / Functional Roles of Enteric Glia / Enteric Glia and Disease Processes in the Gut / Concluding Remarks / References / Author Biography

Gastrointestinal endoscopy is now mainstream and the focus is now changing from developing new techniques to enhancing the efficiency and quality of fundamental techniques. There are three elements to this agenda: initial training, continuous quality improvement and patient empowerment. For the first time, the book is accompanied by two CD-ROMs -featuring video and animation of how to perform the techniques. The first CD-ROM covers the upper GI tract and consists of two sections: (1) the background to instruments and how to get set up, and (2) how to perform diagnostic techniques. The second CD-ROM covers diagnostic and therapeutic procedures in colonoscopy. Cotton and Williams' book has evolved with each new edition to reflect developments in the field of endoscopy over the last 20 years. This fifth edition draws on the vast experience of the authors and heralds current changes in both endoscopy and publishing. The emerging 'back to basics' attitude of endoscopy opinion formers with regard to the teaching of endoscopy has resulted in a more focused table of contents specifically targeted at newcomers to this specialty.

This second edition of the highly successful and comprehensive text on lacrimal disorders presents the latest developments in this rapidly evolving field. The new edition includes six new chapters, additional photographs and all chapters now have a separate section on recent advances. Written by experts in the field of dacryology, this

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book is a practical guide to evaluating and managing patients with lacrimal disorders. It methodically discusses basic anatomy and underlying pathology, patient evaluation, and all surgical procedures currently used to manage such disorders. It thoroughly yet concisely reviews surgical modalities including the endoscopic and micro-endoscopic approaches and provides ample illustrations for a better understanding. Since familiarity with a surgical technique is incomplete without the knowledge of risk factors and red flags, the text highlights ways of dealing with surgical complications and failure. Further it discusses in detail controversial topics and treatment dilemmas and reviews the current consensus among the experts. This is an up-to-date reference work for dacryologists, oculoplastic surgeons, general ophthalmologists as well as fellows in training.

This book is a collection of articles presented by researchers and practitioners, including engineers, biologists, health professionals and informatics/computer scientists, interested in both theoretical advances and applications of information systems, artificial intelligence, signal processing, electronics and other engineering tools in areas related to biology and medicine in the All India Seminar on Biomedical Engineering 2012 (AISOB 2012), organized by The Institution of Engineers (India), Jabalpur Local Centre, Jabalpur, India during November 3-4, 2012. The content of the book is useful to doctors, engineers, researchers and academicians as well as industry professionals.

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This text offers 'how to' information on the use of the hysteroscope in an office setting. Provides guidelines for the selection of the proper equipment, when to use the procedure, nursing requirements and how instruments are sterilized. Covers the technique for diagnostic hysteroscopy step by step, as well as normal and pathologic findings associated with hysteroscopy. Simpler procedures such as IUD removal or endometrial biopsy are also covered. Includes management of complications, fallopscopy and the future of hysteroscopy.

The prospect of interfacing the nervous system with electronic devices to stimulate or record from neural tissue suggests numerous possibilities in the field of neuroprosthetics. While the creation of a "six million dollar man" may still be far into the future, neural prostheses are rapidly becoming viable theories for a broad range of patients wit

This book, which derives from an initiative of the Education Committee of The International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine (ISAKOS), addresses all aspects of elbow arthroscopy. Anatomy is thoroughly introduced, referencing safe portals and describing techniques to minimize risk of complications. Subsequent chapters focus on the use of arthroscopy in a range of conditions, including osteochondritis dissecans, stiff elbow, epicondylitis, elbow instability, and elbow fractures. Guidance is provided on diagnosis and indications for arthroscopy, and arthroscopic technique is clearly detailed. A key chapter describes

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complications and how to avoid them. The authors are experts and pioneers in the field from North America, Australia, and Europe who have in common the ability to teach complex procedures in a simple way. This book will be an invaluable aid for the developing surgeon and an excellent reference for the experienced surgeon.?

This book charts the effects of new communication technologies and the Internet on the creation of music in the early 21st century. It examines how the music industry will be altered by the Internet, music online services and MP3-technology. This is done through an integrated model based on an international history of the industry since the phonograph's invention in 1877, and thus, the history of the music industry is described in full detail for the first time.

Practical Manual of Minimally Invasive Gynecologic and Robotic SurgeryA  
Clinical Cook Book 3ECRC Press

During the last decade the endoscopic endonasal approach (EEA) to the skull base has become a very powerful method to add to the array of neurosurgical technologies. This volume provides a broad overview of the role of transnasal approaches in a wide spectrum of skull base diseases. It starts with a historical perspective of the evolution from the microscope to the endoscope in endonasal surgery and then explores in depth the principles and techniques of the various

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methods. Discussed are topics based on anatomical boundaries: pituitary fossa to the suprasellar space to the cavernous sinus, clivus and the anterior cranial fossa. Access to the infratemporal and posterior fossae via both the endoscopic endonasal and the retrosigmoid approaches are reviewed. In addition, the critical topic of reconstruction following 'minimally invasive' skull base surgery and finally the learning curve and complications associated with the applications of these new and exciting approaches are discussed. This volume will provide the latest knowledge to help neurosurgeons, otolaryngologists, head and neck surgeons as well as craniofacial surgeons understand the applications and practice of this important technique.

This book provides an in-depth 'state-of-the-art' critical review of the technique and the applications of flexible and rigid bronchoscopy to infants and children. Written by an international panel of experts, it reviews the technical aspects of the procedure, its common and highly specialized applications as well as its potential alternatives. The chapters are enhanced by a wealth of original figures. A major innovation of the book is the inclusion of online videos from actual bronchoscopies that further illustrate and elaborate on the information provided in the text. The book is addressed to paediatric pulmonologists and otorhinolaryngologists, both experienced and in training, as well as to other

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personnel who are involved in the performance of the procedures. In addition, it is recommended to pulmonologists for adults and general paediatricians who need to be able to evaluate the usefulness of bronchoscopy for their patients and be aware of its limitations and potential contra-indications.

This detailed book encapsulates the most up-to-date methods of the intestinal stem cell field and provides guidance on a variety of techniques for studying intestinal stem cells properties. Beginning with a section on in vitro techniques to study different aspects of the intestinal stem cell functions by innovative imaging and functional assays, the volume continues with chapters detailing the single-cell transcriptional profiling method, the isolation of intestinal crypts to generate and establish 3D organoids, as well as different animal models of gastrointestinal cancer and examples of the use of in vivo methods for studying intestinal tumor-initiating cells or cancer stem cells. Written for the highly successful Methods in Molecular Biology series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and state-of-the-art, *Intestinal Stem Cells: Methods and Protocols* aims to provide comprehensive and easy to follow protocols designed to be helpful to both seasoned researchers and newcomers to this dynamic field.

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This is an analysis of the nature and impact of the Indian presence in Britain, and British reactions to it. Problems of discrimination, isolation, and deprivation turned many students to politics, they appropriated ideas and institutions, and challenged British metropolitan society.

This third edition has been extensively updated to provide the gynecologic surgeon with a state-of-the-art and practical resource that can be used to review or learn about commonly performed surgical procedures in minimally invasive gynecology. To meet the needs of both novice and experienced surgeons, the text is engineered to cover the clinical decision-making, key instrumentation, and technical cascade for each surgical procedure. Wherever possible, discussion is focused on methods to optimize outcome and reduce risk. The content in this latest edition has been substantially bolstered by the addition of chapters covering vaginal hysterectomy, tissue retrieval in laparoscopic surgery, single port laparoscopy, robotic hysterectomy, robotic myomectomy, robotic sacralcolpopexy, radical robotic hysterectomy, and hemostatic agents for laparoscopic surgery.

The latest edition of the critically acclaimed Small Animal Endoscopy presents informative, practical, and up-to-date guidance on endoscopic indications, instrumentation, patient preparation, and techniques. Todd R. Tams and Clarence A.

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Rawlings, the foremost experts in veterinary endoscopy, provide the novice as well as the advanced practitioner with the information needed to deliver the safest, high-quality endoscopic services for small animals, including avian and exotics. Chapters are organized consistently and lavishly illustrated to help you easily find and understand key concepts and procedures. This edition includes a companion website with expert demonstrations of techniques. Enables you to deliver the safest, high quality care and a wider range of services to the pets of increasingly concerned and savvy owners. Features cutting-edge information on minimally invasive procedures to improve diagnostic accuracy, reduce operating time, improve success, minimize post-operative stress and pain, and promote faster healing. Helps you recognize the many indications for endoscopy in everyday practice. Covers a vast range of topics in a clear, concise and readable style. Describes instrumentation, examination, and sample procurement techniques in detail. Shows both normal and abnormal findings you may encounter during a procedure in an atlas of images in relevant chapters. Provides minimally invasive examination and surgical options for veterinarians treating uniquely sensitive avian and exotic patients. Provides step-by-step instructions on specific techniques. Helps beginners master endoscopic diagnosis and treatment and more experienced endoscopists utilize their endoscopic equipment to its fullest capacity. This book explains and elaborates upon the procedure of endoscopic dacryocystorhinostomy in a variety of indications. It systematically deals with the

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anatomy of the lacrimal drainage system, covering all aspects of gross, endoscopic and radiological anatomy. It discusses extensively on the preoperative assessment involving clinical and radiological evaluation as it is a crucial step towards achieving a successful dacryocystorhinostomy. It uses a lot of clinical and schematic diagrams of the surgical steps, simplifying the layout of the procedure and thus making it very easy for the eye and ENT surgeons to follow the technique. The book covers from basic to the most advanced and minimally invasive procedures like dacryoendoscopy and balloon dacryoplasty. It also provides a few handy tips for the upcoming young oculoplastic surgeons, ENT surgeons and postgraduate students.

Endoscopic third ventriculostomy is the most widely performed neuroendoscopic procedure around the world. Several scientific papers appear in the scientific literature every month, with an increasing number, given the great interest neuroendoscopy has aroused as well as controversies about certain aspects of endoscopic third ventriculostomy. With this reasoning, the goal of this book is to be a reference in the revision of classic concepts and scientifically proven aspects about the indications and techniques of endoscopic third ventriculostomy, as well as new neuroendoscopic tendencies. The book is structured in 2 parts and into 7 chapters. Part I – Classic Concepts – comprises the first 2 chapters, covering general aspects of neuroendoscopy such as historical notes, endoscopic anatomy and ventricular system physiology. Part II – State-of-the-Art – comprises chapters 3 to 7. From chapters 3 to 6 the book will

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discuss general principles of endoscopic ventricular technique and the applications of endoscopic third ventriculostomy in different age groups, and its association to choroid plexus coagulation. Chapter 7 deals with alternative ways of communicating the ventricular system with the cisterns of the subarachnoid space. All chapters are richly illustrated with high resolution images; there are links to online access to demonstrative surgical videos. Designed for neurosurgeons at every level, the book will be unique in the market, as there is no similar book in the current scientific literature that specifically discusses endoscopic third ventriculostomy in its broadest sense.

Endoscopy of the spinal canal – epiduroscopy (EDS) – has proven to be a safe, efficient and future-oriented interventional endoscopic procedure for everyday clinical use in diagnosing and managing pain syndromes. Epiduroscopy can be used in the sacral, lumbar, thoracic and even cervical regions of the spine to identify pathological structures, carry out tissue biopsies and perform epidural pain provocation tests to assess the pain relevance of visualized anomalies, making it an excellent diagnostic tool. Spinal endoscopy allows targeted epidural analgesic pharmacologic therapy for affected nerve roots or other painful regions in the epidural space. Treatment options provided by epiduroscopy include laser-assisted adhesiolysis or resection of pain-generating fibrosis, catheter placement, as well as support with other invasive procedures for pain relief. Professional EDS management enhances a multimodal philosophy and opens up new treatment strategies for patients. If used early on, it can

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control pain well before chronicity sets in.

Phosphoinositides play a major role in cellular signaling and membrane organization. During the last three decades we have learned that enzymes turning over phosphoinositides control vital physiological processes and are involved in the initiation and progression of cancer, inflammation, neurodegenerative, cardiovascular, metabolic disease and more. In two volumes, this book elucidates the crucial mechanisms that control the dynamics of phosphoinositide conversion. Starting out from phosphatidylinositol, a chain of lipid kinases collaborates to generate the oncogenic lipid phosphatidylinositol(3,4,5)-trisphosphate. For every phosphate group added, there are specific lipid kinases – and phosphatases to remove it. Additionally, phospholipases can cleave off the inositol head group and generate poly-phosphoinositols, which act as soluble signals in the cytosol. Volume I untangles the web of these enzymes and their products, and relates them to function in health and disease. Phosphoinositide 3-kinases and 3-phosphatases have received a special focus in volume I, and recent therapeutic developments in human disease are presented along with a historical perspective illustrating the impressive progress in the field.

Thyroid surgery has undergone tremendous transformation in recent years, much of which has been technologically driven. Also the approach to the patient with hyperparathyroidism has similarly evolved to an operation that has little in common with the conventional neck exploration of just a decade ago. Highlights of this issue are

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contributions by leading experts in the field of thyroid surgery. State-of-the-art reviews on minimally invasive thyroid and parathyroid surgery as well as articles on novel approaches to the management of thyroid cancer are included. Further, new technology in thyroid surgery, the management of the central compartment in thyroid cancer, and intraoperative parathyroid hormone monitoring are discussed. Otolaryngologists and surgeons as well as endocrinologists, pediatric endocrinologists, and oncologists managing thyroid diseases will appreciate this comprehensive and timely update.

This book is an illustrated and comprehensive compilation by experts in the field of fertility enhancing endoscopic surgery and assisted reproduction. This book catalogues full spectrum of diagnostic and operative hysteroscopy in the infertile population. The authors describe different techniques in various clinical conditions and review the recent evidence based literature supporting them. All procedures are explained in clear and precise text supplemented with high quality color pictures.

This new edition brings surgeons fully up to date with the latest developments and technologies in laparoscopic and hysteroscopic gynaecological surgery. Beginning with the history, instruments and training of endoscopy, each chapter focuses on a different condition, presenting surgical procedures in a step by step process, as well as possible complications. The second edition includes new chapters on ovarian tumours, ectopic pregnancy and tubal surgery, as well as an up to date reference list. Written by an extensive author and editor team from Europe, the USA and Canada, this practical

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manual features nearly 750 full colour images and illustrations, and includes four interactive DVD ROMs demonstrating surgical procedures described in the book. Key points New edition presenting latest developments in laparoscopic and hysteroscopic gynaecological surgery Includes new chapters on ovarian tumours, ectopic pregnancy and tubal surgery Extensive author and editor team from Europe, USA and Canada Includes nearly 750 colour images and illustrations and four interactive DVD ROMs Previous edition published in 2006

As minimally invasive surgical techniques evolve, the outlook for patients continues to brighten. This is also true for pregnant women experiencing conditions requiring surgical intervention during gestation. A physician's ability to identify potential risk factors in pregnant patients that present pre-op directly corresponds with their success in monitoring patients in post-op for adverse obstetric outcomes from non-obstetric surgeries. The utilization of laparoscopic techniques during surgery for pregnant patients has decreased the risk of fetal complications and increased the positive outlook for the duration of the pregnancy. This text is designed to present a minimally invasive approach to surgery that is non-obstetrics related and to educate readers on the potential risk factors and negative outcomes on pregnant patients following non-obstetric surgery. The various sections of this book will address issues faced by surgeons who undertake the task of operating on the pregnant patient. When performing non-obstetric surgery on a pregnant patient the ability to identify possible

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risk factors for adverse obstetric outcomes is important. Risk factors can be maternal-, surgical-, obstetrical-, or disease-associated. Common adverse obstetric outcomes following non-obstetric surgery include preterm delivery, preterm labor without preterm delivery, and miscarriage. Fetal well-being is an additional risk-benefit factor to be considered when weighing options before conducting non-obstetric surgeries on pregnant patients. This book will provide physicians with the knowledge and tools to identify common risk factors and successfully apply evidence-based risk reduction. To date, no comprehensive resource is available for non-obstetric surgery during pregnancy. Types of pregnancies, potential complications, proper use of anesthesia, types of risk factors (maternal-, surgical-, obstetrical-, and disease-associated), etc. will be thoroughly explained and depicted within these pages. All chapters will be written by subject matter experts in their fields. All information communicated will be comprised of the most currently available knowledge

This book focuses on the use of molecular tools to study small populations of rare and endangered mammals, and presents case studies that apply an evolutionary framework to address innovative questions in the emerging field of mammalian conservation genomics using a highly diverse set of novel molecular tools. Novel and more precise molecular technologies now allow experts in the field of mammology to interpret data in a more contextual and empirical fashion and to better describe the evolutionary and ecological processes that are responsible for the patterns they observe. The book also

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demonstrates how recent advances in genetic/genomic technologies have been applied to assess the impact of environmental/anthropogenic changes on the health of small populations of mammals. It examines a range of issues in the field of mammalian conservation genomics, such as the role that the genetic diversity of the immune system plays in disease protection and local adaptation; the use of noninvasive techniques and genomic banks as a resource for monitoring and restoring populations; the structuring of population by physical barriers; and genetic diversity. Further, by integrating research from a variety of areas – including population genetics, molecular ecology, systematics, and evolutionary and conservation biology – it enables readers to gain a deeper understanding of the conservation biology of mammals that are at increasing risk of extinction at local, regional and global scales. As such, it offers a unique resource for a broad readership interested in the conservation biology of mammals and conservation management strategies to better preserve biodiversity. The purpose of this book is to show the essential and indispensable role of prokaryotes in the evolution of living world. The evolutionary success of prokaryotes is explained together with their role in the evolution of the geosphere, the biosphere and its functioning, as well as their ability to colonize all biotopes, including the most extreme ones. We consider that all past and present living beings emerged from prokaryotes and have interacted with them. Forces and mechanisms presented in the various theories of evolution apply to prokaryotes. The major stages of their evolution and

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biodiversity are also described. Finally, it is emphasized that prokaryotes are living organisms that provide indisputable evidence of evolutionary processes. Many examples of ongoing evolution in prokaryotes, observable at the human scale, are provided.

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